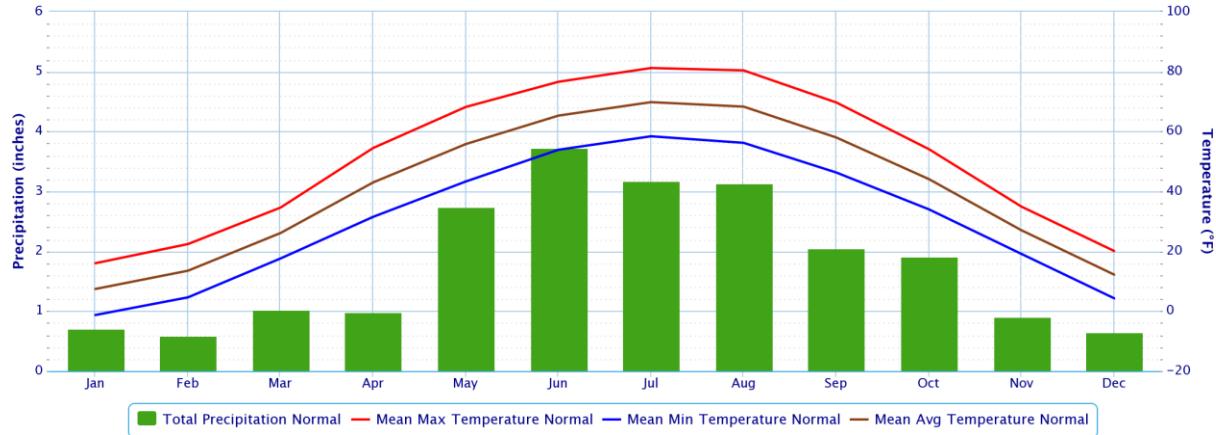


University of North Dakota / NWS Grand Forks 1981 – 2010 Climate

Monthly Climate Normals (1981–2010) – GRAND FORKS UNIV, ND



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University of North Dakota / NWS Monthly Means

Month	Total Precipitation	Mean Max Temperature	Mean Min Temperature	Mean Average Temperature
January	0.71	16.0	-1.3	7.4
February	0.59	22.4	4.6	13.5
March	1.02	34.6	17.6	26.1
April	0.98	54.5	31.5	43.0
May	2.75	68.2	43.3	55.8
June	3.74	76.6	53.9	65.3
July	3.17	81.2	58.4	69.8
August	3.14	80.4	56.2	68.3
September	2.05	69.7	46.3	58.0
October	1.92	54.1	34.0	44.1
November	0.90	34.9	19.1	27.0
December	0.65	20.1	4.3	12.2

Mean Daily Precipitation												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.02	0.02	0.03	0.03	0.06	0.12	0.11	0.09	0.08	0.08	0.04	0.02
2	0.02	0.01	0.03	0.03	0.06	0.12	0.12	0.09	0.08	0.07	0.04	0.02
3	0.03	0.02	0.03	0.03	0.06	0.12	0.11	0.10	0.08	0.07	0.04	0.02
4	0.02	0.02	0.03	0.03	0.07	0.12	0.12	0.09	0.08	0.08	0.03	0.02
5	0.03	0.02	0.03	0.03	0.07	0.12	0.12	0.09	0.08	0.07	0.04	0.02
6	0.02	0.01	0.03	0.03	0.07	0.12	0.11	0.10	0.08	0.08	0.04	0.02
7	0.02	0.02	0.03	0.02	0.07	0.12	0.12	0.09	0.08	0.07	0.04	0.02
8	0.03	0.01	0.03	0.03	0.08	0.12	0.11	0.10	0.07	0.06	0.03	0.02
9	0.02	0.02	0.04	0.03	0.08	0.12	0.11	0.09	0.08	0.07	0.04	0.02
10	0.03	0.01	0.03	0.03	0.08	0.12	0.11	0.10	0.07	0.07	0.03	0.02
11	0.03	0.02	0.03	0.02	0.09	0.13	0.11	0.10	0.07	0.06	0.03	0.02
12	0.02	0.02	0.03	0.03	0.09	0.13	0.11	0.10	0.07	0.07	0.03	0.02
13	0.03	0.02	0.03	0.03	0.08	0.12	0.10	0.11	0.07	0.07	0.03	0.02
14	0.02	0.02	0.03	0.03	0.09	0.13	0.11	0.10	0.06	0.07	0.03	0.02
15	0.03	0.02	0.04	0.03	0.09	0.12	0.10	0.11	0.06	0.07	0.03	0.02
16	0.02	0.03	0.03	0.03	0.09	0.13	0.10	0.11	0.06	0.07	0.03	0.02
17	0.02	0.02	0.03	0.02	0.10	0.13	0.11	0.11	0.06	0.06	0.03	0.02
18	0.03	0.02	0.04	0.03	0.09	0.13	0.10	0.11	0.06	0.07	0.03	0.03
19	0.02	0.02	0.03	0.03	0.10	0.13	0.10	0.11	0.07	0.06	0.03	0.02
20	0.02	0.03	0.04	0.03	0.10	0.13	0.10	0.11	0.05	0.06	0.03	0.02
21	0.02	0.02	0.03	0.03	0.09	0.13	0.09	0.10	0.06	0.06	0.02	0.02
22	0.03	0.03	0.04	0.03	0.10	0.13	0.09	0.11	0.06	0.05	0.03	0.02
23	0.02	0.02	0.03	0.04	0.10	0.12	0.09	0.11	0.06	0.06	0.02	0.02
24	0.02	0.03	0.04	0.04	0.09	0.13	0.09	0.11	0.07	0.05	0.02	0.02
25	0.02	0.02	0.04	0.04	0.10	0.13	0.09	0.11	0.06	0.05	0.03	0.03
26	0.02	0.03	0.03	0.04	0.11	0.12	0.09	0.10	0.07	0.05	0.02	0.02
27	0.02	0.03	0.03	0.04	0.10	0.13	0.08	0.10	0.06	0.04	0.02	0.02
28	0.02	0.03	0.04	0.05	0.11	0.12	0.09	0.10	0.07	0.05	0.03	0.02
29	0.02	-	0.03	0.05	0.11	0.13	0.10	0.10	0.06	0.04	0.02	0.03
30	0.02	-	0.04	0.05	0.11	0.12	0.09	0.10	0.07	0.05	0.02	0.02
31	0.02	-	0.03	-	0.11	-	0.09	0.09	-	0.04	-	0.02

Normal Max Temperature												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	16	18	27	45	63	73	80	82	76	62	44	26
2	16	19	28	46	64	73	80	82	76	62	44	25
3	16	19	28	46	64	74	80	82	75	61	43	25
4	15	19	28	47	64	74	80	82	75	61	42	24
5	15	20	29	48	65	74	80	82	75	60	42	24
6	15	20	29	48	65	74	80	82	74	60	41	24
7	15	20	30	49	66	75	80	82	74	59	40	23
8	15	20	30	50	66	75	81	82	73	59	40	23
9	15	21	30	50	66	75	81	82	73	58	39	22
10	15	21	31	51	66	75	81	82	72	58	38	22
11	15	21	31	52	67	76	81	82	72	57	38	22
12	15	22	32	53	67	76	81	82	71	57	37	21
13	15	22	32	53	67	76	81	82	71	56	36	21
14	15	22	33	54	68	76	81	81	70	56	36	20
15	15	22	34	55	68	77	81	81	70	55	35	20
16	15	23	34	55	68	77	81	81	70	54	34	20
17	16	23	35	56	69	77	81	81	69	54	34	19
18	16	23	35	56	69	77	82	81	69	53	33	19
19	16	24	36	57	69	78	82	80	68	53	32	19
20	16	24	36	58	70	78	82	80	68	52	32	18
21	16	24	37	58	70	78	82	80	67	51	31	18
22	16	25	38	59	70	78	82	80	67	51	31	18
23	16	25	38	59	70	78	82	79	66	50	30	18
24	17	25	39	60	71	79	82	79	66	50	30	17
25	17	26	40	60	71	79	82	79	65	49	29	17
26	17	26	40	61	71	79	82	78	65	48	28	17
27	17	26	41	61	72	79	82	78	64	48	28	17
28	18	27	42	62	72	79	82	78	64	47	27	16
29	18	-	42	62	72	79	82	77	63	46	27	16
30	18	-	43	63	72	80	82	77	63	46	26	16
31	18	-	44	-	73	-	82	77	-	45	-	16

Normal Min Temperature												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	-0	0	11	25	38	49	58	58	52	40	27	10
2	-1	0	11	26	38	50	58	58	52	40	27	10
3	-1	0	12	26	38	50	58	58	52	39	26	9
4	-1	1	12	26	39	50	58	58	51	39	26	9
5	-1	1	12	27	39	51	58	58	51	38	25	8
6	-1	1	13	27	40	51	58	58	50	38	24	8
7	-1	2	13	28	40	51	58	58	50	38	24	8
8	-1	2	14	28	40	52	58	58	50	37	23	7
9	-2	2	14	29	41	52	58	58	49	37	23	7
10	-2	3	15	29	41	52	58	58	49	36	22	6
11	-2	3	15	30	42	53	58	57	48	36	22	6
12	-2	3	16	30	42	53	58	57	48	36	21	5
13	-2	4	16	31	42	54	59	57	47	35	21	5
14	-2	4	17	31	42	54	59	57	47	35	20	5
15	-2	4	17	31	43	54	59	57	46	34	19	4
16	-2	5	18	32	43	54	59	57	46	34	19	4
17	-2	5	18	32	44	55	59	56	46	34	18	4
18	-2	6	18	33	44	55	59	56	45	33	18	3
19	-2	6	19	33	44	55	59	56	45	33	17	3
20	-2	7	20	34	45	56	59	56	44	33	16	2
21	-2	7	20	34	45	56	59	56	44	32	16	2
22	-2	7	20	34	46	56	59	55	44	32	15	2
23	-2	8	21	35	46	56	59	55	43	31	15	2
24	-1	8	21	35	46	56	59	55	43	31	14	1
25	-1	9	22	36	47	57	59	54	42	30	14	1
26	-1	9	22	36	47	57	58	54	42	30	13	1
27	-1	10	23	36	47	57	58	54	41	30	13	1
28	-1	10	23	37	48	57	58	54	41	29	12	0
29	-1	-	24	37	48	57	58	53	41	29	12	0
30	-0	-	24	37	48	58	58	53	40	28	11	-0
31	-0	-	25	-	49	-	58	53	-	28	-	-0

Mean Daily Temperature												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.7	9.3	18.8	34.9	50.5	61.1	68.6	70.2	64.2	51.1	35.7	18.2
2	7.5	9.5	19.2	35.5	50.9	61.4	68.8	70.2	63.9	50.6	35.1	17.7
3	7.4	9.8	19.7	36.1	51.3	61.8	68.9	70.2	63.5	50.2	34.5	17.2
4	7.2	10.0	20.1	36.7	51.6	62.1	69.0	70.1	63.1	49.8	33.9	16.7
5	7.1	10.3	20.5	37.3	52.0	62.4	69.1	70.1	62.7	49.3	33.3	16.2
6	7.0	10.6	21.0	37.9	52.4	62.7	69.2	70.0	62.2	48.9	32.7	15.8
7	6.9	10.9	21.4	38.5	52.7	63.0	69.3	69.9	61.8	48.4	32.1	15.3
8	6.9	11.2	21.9	39.1	53.1	63.3	69.4	69.9	61.4	48.0	31.5	14.9
9	6.8	11.5	22.4	39.7	53.4	63.6	69.5	69.8	61.0	47.5	30.9	14.5
10	6.8	11.8	22.8	40.2	53.8	64.0	69.6	69.7	60.5	47.1	30.3	14.0
11	6.7	12.2	23.3	40.8	54.1	64.2	69.7	69.5	60.1	46.6	29.6	13.6
12	6.7	12.5	23.8	41.4	54.5	64.5	69.7	69.4	59.6	46.2	29.0	13.2
13	6.7	12.8	24.3	41.9	54.8	64.8	69.8	69.3	59.2	45.7	28.4	12.9
14	6.7	13.2	24.8	42.5	55.1	65.1	69.9	69.1	58.7	45.2	27.8	12.5
15	6.8	13.5	25.3	43.0	55.5	65.4	69.9	69.0	58.3	44.7	27.2	12.1
16	6.8	13.8	25.8	43.6	55.8	65.6	70.0	68.8	57.8	44.3	26.6	11.8
17	6.8	14.2	26.3	44.1	56.1	65.9	70.0	68.6	57.4	43.8	26.0	11.4
18	6.9	14.6	26.9	44.6	56.5	66.2	70.1	68.4	56.9	43.3	25.4	11.1
19	7.0	14.9	27.4	45.1	56.8	66.4	70.1	68.2	56.5	42.8	24.8	10.8
20	7.1	15.3	28.0	45.6	57.1	66.6	70.1	68.0	56.0	42.3	24.2	10.5
21	7.2	15.7	28.5	46.1	57.5	66.9	70.2	67.7	55.6	41.8	23.6	10.2
22	7.3	16.0	29.1	46.6	57.8	67.1	70.2	67.5	55.1	41.3	23.0	9.9
23	7.5	16.4	29.6	47.1	58.1	67.3	70.2	67.2	54.7	40.7	22.5	9.6
24	7.6	16.8	30.2	47.5	58.4	67.5	70.3	66.9	54.2	40.2	21.9	9.3
25	7.8	17.2	30.8	48.0	58.8	67.7	70.3	66.6	53.8	39.7	21.3	9.1
26	8.0	17.6	31.4	48.4	59.1	67.9	70.3	66.3	53.3	39.1	20.8	8.8
27	8.1	18.0	32.0	48.8	59.4	68.0	70.3	66.0	52.9	38.6	20.2	8.6
28	8.3	18.4	32.5	49.3	59.8	68.2	70.3	65.7	52.4	38.0	19.7	8.4
29	8.6	-	33.1	49.7	60.1	68.4	70.3	65.3	52.0	37.4	19.2	8.2
30	8.8	-	33.7	50.1	60.4	68.5	70.3	65.0	51.5	36.9	18.7	8.0
31	9.0	-	34.3	-	60.8	-	70.3	64.6	-	36.3	-	7.8